Proposed Modifications to the Wisconsin Commercial Building Code

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6	Fire Alarm and	IBC section 907.2.3 adds a requirement for	SPS 362.0906 (6) is created to read:
	Detection in	EVAC systems and modifies threshold for alarm	
	Certain Group	systems in Group E occupancies.	SPS 362.0907 (6) FIRE ALARM AND DETECTION IN GROUP E
	E Occupancies.		OCCUPANCIES. The requirements in IBC section 907.2.3 exception
			2. and exception 4.2 are not included as part of chs. SPS 361 to
			<u>366.</u>
7	Floor Level Exit	IBC section 1013.2 adds a requirement for low	SPS 362.1013 is created to read:
	Signs	level exit signs in Group R-1 occupancies.	
			SPS 362.1013 Floor-level exit signs. The requirements in IBC
			section 1013.2 are not included as part of chs. SPS 361 to 366.
8	Bleachers and	IBC section 1029.1.1.1 adds requirements to	SPS 362.1029 is created to read:
	Grandstands	spaces under bleachers or grandstands for uses	
		other than ticket sales.	SPS 362.1029 The requirements in IBC section 1029.1.1.1 are
			not included as part of chs. SPS 361 to 366.
9	Upholstered	IBC section 903.2.9 condition 5 requires	SPS 362.0903 (12) is created to read:
	Furniture	sprinklers for Group S-1 used for upholstered	
		furniture or mattresses.	SPS 362.0903 (12) UPHOLSTERED FURNITURE. The requirements in
			IBC section 903.2.9 condition 5 are not included as part of chs.
			SPS 361 to 366.
			This removes the 2015 sprinkler requirement for Group S-1
			occupancies used for the storage upholstered furniture or
			mattresses in buildings that exceed 2,500 square feet. The
			council created a Wisconsinism related to this topic as follows:
			SPS 362.0903 (12) UPHOLSTERED FURNITURE. Substitute the
			following wording for the requirement and condition in IBC
			section 903.2.9 condition 5: A group S-1 occupancy used for the
			storage of upholstered furniture or mattresses exceeds 2,500
			square feet (232 m²), except that this requirement does not
			apply if upholstered furniture or mattresses are stored in an
			unoccupied self-service storage building.
10	Multistory	IBC section 1107.7.2	
	Туре В	Primary entry level in a multistory Type B	
	Dwelling Units	dwelling unit served by an elevator must have a	
		living are, kitchen and toilet facility.	

11	General -	C401.2 clarifies three options for compliance.	SPS 363.0401 (4) is created to read:
	Application	Option 3 requires an energy cost equal to or less than 85 percent of standard reference building.	SPS 363.0401 (4) COMPLIANCE REQUIREMENTS. Substitute the following in IECC section C401.2 condition 3: The requirements of IECC sections C402.5, C403.2, C404, C405.2, C405.3, C405.4, C405.6 and C407.
			(This language would retain the clarification as to how to comply with the IECC, but removes the energy cost requirement.)
12	Building	C402-2015 IECC focuses more on building	
	Envelope Requirements	envelope than previous version of the code. Higher R values.	
13	HVAC Equipment	C403.2.3 and Tables 403.2.3 (1-9) 2015 modifies equipment performance	
4.4	Performance	requirements.	CDC 2C2 0402 (7) :
14	Zone Isolation	C403.2.4.4 requires zones served by HVAC systems over 25,000 square feet or more to be subdivided into isolation areas.	SPS 363.0403 (7) is created to read: SPS 363.0403 (7) ZONE ISOLATION. The requirements in IECC section 403.2.4.4 are not included as part of chs. SPS 361 to 366.
15	Demand Control Ventilation	C403.2.6.1 modifies the threshold for DCV from average occupant load of 40/1000 to 25/1000.	SPS 363.0403 (8) is created to read: SPS 363.0403 (8) DEMAND CONTROLLED VENTILATION. Substitute the following for the wording, but not the exceptions, in IECC section 503.2.6.1: Demand control ventilation (DCV) is required for spaces larger than 40 people per 1000 sq. ft. (93 m²) of floor area (as established in Table 403.3 of the International Mechanical Code) and served by systems with one or more of the following: 1. An air-side economizer. 2. Automatic modulating control of the outdoor air damper. 3. A design outdoor airflow greater than 3,000 cfm (1400L/s).

16	Garage Ventilation Controls	IECC section C403.2.6.2 requires mandatory installation of automatic garage controls.	
17	Pipe Insulation	Modifies piping insulation requirements. Increases insulation by about 30 to 50%. Cooling reduced. More restrictive higher R value. New table.	SPS 363.0403 (9) PIPING INSULATION. (a) Substitute the following for the requirements, but not the exceptions, in IECC section C403.2.10: All piping serving as part of a heating or cooling system shall be thermally insulated in accordance with Table363.0403. (b) Substitute the following for exception 5. In IECC section C403.2.10: 5. Runout piping not exceeding 4 feet (1219 mm) in length and 1 inch (25mm) in diameter between the control valve and HVAC coil. (c) IECC section C403.2.10 exception 6 is not included as part of chs. SPS 361 to 366. (d) Substitute the following for IECC Table C403.2.1: Table 363.0403 is created to read: (See draft rule language.)
18	Protection of Pipe Insulation	C403.2.10.1 establishes requirements for protecting pipe insulation.	SPS 363.0403 (10) is created to read: SPS 363.0403 (10) PROTECTION OF PIPING INSULATION. The requirements in IECC section C403.2.10.1 are not included as part of chs. SPS 361 to 366.
19	Walk-in Coolers and Freezers	C403.2.15 and 16 establishes requirements for walk-in coolers, freezers, refrigerated warehouse coolers and freezers. New standards for walk-ins.	SPS 363.0403 (11) is created to read: SPS 363.0403 (11) WALK-IN COOLERS AND FREEZERS. The requirements in IECC sections C403.2.15 and C403.2.16 are not included as part of chs. SPS 361 to 366.
20	Boiler Turndown	C403.4.2.5 establishes turndown ratio for boilers with design input over 1,000,000 BTU/hr.	SPS 363.0403 (12) is created to read: SPS 363.0403 (12) BOILER TURNDOWN. The requirements in IECC section C403.2.5 are not included as part of chs. SPS 361 to 366.

21	Economizer Heating System Impact Lighting Equipment	Modifies from 50 to 75 percent of the line voltage fixtures required to have high efficiency	SPS 363.0403 (13) is created to read: SPS 363.0403 (13) ECONOMIZER HEATING SYSTEM IMPACT. The requirements in IECC section C403.3.2 are not included as part of chs. SPS 361 to 366. SPS 363.5404 is created to read:
	(mandatory)	bulbs.	SPS 363.5404 Lighting equipment. Substitute the following wording for the requirements, but not exception, in IECC section R404.1: Not less than 50 percent of the lamps in permanently installed lighting fixtures shall be high-efficacy lamps or not less than 75 percent of the permanently installed lighting fixtures shall contain only high-efficacy lamps.
23	Lighting Controls	C405 adds more stringent requirements for daylighting, lighting controls and allowed lighting power densities in new and existing buildings.	
24	Lighting Occupant Sensor Controls	C405.2.1 Requires occupancy sensors in classroom, conference rooms, etc. and all areas 300 sq. feet or less enclosed by floor to ceiling height partitions.	SPS 363.0405 (3) is created to read: SPS 363.0405 (3) OCCUPANT SENSOR LIGHTING CONTROLS. (a) Substitute the following for the requirements, but not the exceptions, in IECC section C405.2: Lighting systems shall be provided with controls as specified in Sections C405.2.2, C405.2.3 C405.2.4 and C405.2.5. (b) The requirements in IECC section C405.2.1 are not included as part of chs. SPS 361 to 366.
25	Additional Efficiency Package Options	C406.1 requires buildings to comply with at least one of several additional efficiency package options.	SPS 363.0406 is created to read: SPS 363.0403 Requirements for additional efficiency package options. The requirements in IECC section 363.0403 are not included as part of chs. SPS 361 to 366.

26	Performance	IECC section C407.3 modifies performance	
	Based	based compliance methodology but requiring	
	Compliance	buildings to achieve to achieve 15 percent	
		greater energy efficiency since C401.2 requires	
		building energy cost to be equal to or less than	
		85 percent of the standard reference design	
		building.	
27	Lighting	IECC section C408.2.5.2.6Lighting contractor	
	Operation and	required to provide operations and	
	Maintenance	maintenance manuals for lighting and lighting	
	Manuals	controls.	
28	Occupant	IECC section C408.3.1 requires functional	
	Sensor	testing of occupant sensor controls and time-	
	Controls	switch controls.	
29	Table R402.1.2	Table R402.1.2 Modifies the prescriptive	
	Insulation and	insulation and fenestration requirements for	
	Fenestration	continuous insulation at wood framed walls in	
	Requirements	Climate Zones 6 and 7. Increased R-values.	
30	Air Leakage	Requires inspection and testing and increases	
	Inspection and	tightness requirements.	
	Testing		
31	Protecting	R403.4.1 establishes requirements for	SPS 363.5403 (3) is created to read:
	Piping	protecting pipe insulation in residential	
	Insulation	buildings	SPS 363.5403 (3) PROTECTION OF PIPING INSULATION IN
	(Residential)		RESIDENTIAL BUILDINGS. The requirements in IECC section
			R403.4.1 are not included as part of chs. SPS 361 to 366.
32	Fenestration	C402.4, C402.4.1.1 and C402.4.1.2	SPS 363.0402 is created to read:
			SPS 363.0402 Fenestration. The requirements in IECC sections
			<u>C402.4, C402.4.1.1</u> and C402.4.1.2 are not included as part of
			<u>chs. 361 to 366.</u>
33	Mechanical	Mechanical ventilation requirements for R-2	
	Ventilation R-2	occupancies three stories or less in height have	
	Occupancies	been completely revised.	
	Three Stories		
	or Less		

34	Nail, Manicure	IMC Tables have revised footnotes with	Replace footnote m. with the following:
	and Pedicure	ventilation requirements for nail, manicure and	
	Stations	pedicure stations.	For nail salons, the required exhaust shall include ventilation
			tables or other systems that capture the contaminants and
			odors at their source and are capable of exhausting a minimum
			of 50 cfm per station.
			SPS 364 substitutes a table for table 403.3.1.1. and the
			footnote for nail salons are listed under m. in SPS 364 rather
			than h. as in the IMC.
			This is a new Wisconsinism:
			m. For all nail salons, each manicure and pedicure station shall
			be provided with a source capture system capable of
			exhausting not less than 50 cfm per station. Exhaust inlets shall
			be located in accordance with IMC section 502.20. Where one
			or more required source capture systems operate continuously
			during occupancy, the exhaust rate from such systems shall be
			permitted to be applied to the exhaust flow rate required under
			<u>Table 364.0403 for the nail salon.</u>
35	Domestic	Scope of domestic kitchen hoods coverage has	SPS 364.0505 is created to read:
	Kitchen	been expanded beyond dwelling units.	SPS 364.0505 Domestic kitchen exhaust equipment. The
	Exhaust Hoods		requirements in IMC section 505.4 are not included as part of
			<u>chs. SPS 361 to 366.</u>
36	Door Swing	IFBC section 502.7.1 has been added to address	SPS 365.0502 is created to read:
		a condition where a door could impact or come	SPS 365.0502 Door swing. The requirements in IFGC section
		too close to an appliance vent terminal.	502.7.1 are not included as part of chs. SPS 361 to 366.
37	Multiple	Prohibits use of a single sensor mounted in	SPS 364.0507 (2) is repealed and recreated to read:
	Hoods Utilizing	common ductwork for commercial kitchen	SPS 364.0507 (2) MULTIPLE HOODS UTILIZING A SINGLE EXHAUST
	a Single	hoods having multiple hoods manifolded	SYSTEM. The requirements in IMC section 507.1.1.1 are not
	Exhaust Hood	together.	included as part of chs. SPS 361 to 366.
38	Fire Alarm	IEBC section 904.2	
	System	Install a fire alarm system and detection system	
	Alteration	with any level 3 alteration.	
	Level 3		